

Time: 2.30 Hours

Total Marks: 70

Que.-1 What is filtration? Classify filtration with example. Discuss pressure filter with neat sketch.[14]

OR

Que.-1 What is drying? Explain construction, working and application of tray and drum dryer.[14]

Que.-2 Discuss the unit operation distillation with example. Explain any two distillation equipment used in chemical industry.[14]

OR

Que.-2 Give the introduction and general consideration of extraction. Explain construction, working and application of packed tower.[14]

Que.-3 What is nitration? Explain it with example. Give industrial production of TNT with flow sheet diagram.[14]

OR

Que.-3 What are oxidation and oxidizing agents? Give manufacture of HCHO.[14]

Que.-4 What is reduction? Give production of aniline by reduction.[14]

OR

Que.-4 What is esterification? How industrially vinyl acetate monomer is manufactured?[14]

Que.-5 What is unit operation? Give detail account of muller mill and pug mill.[14]

OR

Que.-5 How mechanical separation is used in industries? Describe cone classifiers with neat sketch.[14]